Ministry of
Northern Development
and Mines
Ontario
Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO

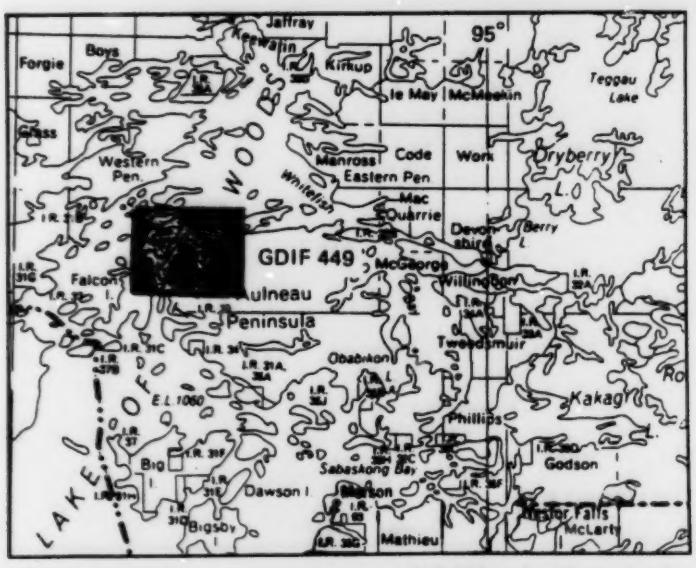
GDIF 449

ASTRON BAY AREA

(52 E/7 NE)

DISTRICT OF KENORA

Compiled by the Staff of
the Resident Geologist's Office
Kenora



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

ODM GENERAL INDEX SEARCH

Words searched Astron Bay, Aulneau Peninsula, Boucha Lake, Calendar Island, Cliff Island, Coste Island Occurrence, Cranston, S., Deadbroke Island Occurrence, Don Lake, Falcon Island, Grande Presqu'ile, Homestake Mining Company of Algoma Limited, Johnson Passage, Mack 26/27 Occurrence, Maud Lake, P 64, O'Dell Lake, Redrock Island, Redwater Bay, Tug Channel

Index Volume	Listing	Report Volume	Part	Page
1	Astron Bay, Grande Presqu'ile, Lake of the Woods			
	Notes on, by Coleman	7		115
	Rocks, petrography	7		145,146
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	Cliff Island, Lake of the Woods	7		119
	Dead Broke Gold Mine, Redrock Island, Lake of the Woods			
	Notes (1892)	2		232
	Falcon Island, Lake of the Woods			
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	Muskeg, photo	21	1	185
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	Rocks, granite	22	1	214,216
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	Homestake Company of Algoma			
	Capital; shares disposed of	2		232
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	Gold Bullion Mining Company			
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	Work, Lake of the Woods	7		117
	Maud Lake, Lake of the Woods	21	1	182
	Notes by Coleman	7		116
	Red Rock Island, Lake of the Woods			
	Gold mining, see "Dead Broke Gold Mine" above			
	Tug Channel, Lake of the Woods			
	Notes by Coleman	7	2	117

GDIF FORM NO. 8

89-03278/ 52 E/7 NE

Mining Claim Map Number G - 2602 (M - 2678)

This project is part of the Canada-Ontario Mineral Development Agreement (COMDA).

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows: Ontario Geological Survey

1988: Astron Bay Area, District of Kenora; Ontario Geological Survey, Geological Data Inventory Folio 449; compiled by the staff of the Resident Geologist's Office, Kenora, 21 pages and 2 maps.

Original Compilation by: G. Vogg

Date	Page Revised	Revised by

Date	Page Revised	Revised by

Astron Bay Area

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ACCOMPANYING MAPS

Property Location Map 1
Exploration Data Map 1
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	GV OCT 87
2	Assessment Files Research Office, Toronto		
3	ODM General Index; 9 volumes	YES	GV OCT 87
4	Catalogue of Airborne Geophysical Surveys (ODM)		
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	GV OCT 87
6	ODM Industrial Mineral Reports	YES	GV OCT 87
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	GV OCT 87
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	GV OCT 87
9	Newspaper Clippings File	YES	GV OCT 87
10	GSC Index to Publications	YES	GV OCT 87
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	GV OCT 87
12	OGS Index Maps	YES	GV OCT 87
13	Source Mineral Deposit Records (O.G.S./MDIR's(O.G.S.)/NMI's(E.M.R.)	YES	GV OCT 87
14	Author - Subject Articles File		
15	Miscellaneous Papers: ODM & OGS	YES	GV OCT 87
16	ODM Geological Circulars: OGS Study Series	NO	GV OCT 87
17	ODM Preliminary Reports: ODM Bulletins	YES	GV OCT 87
18	ODM – OGS Open File Reports & Maps	YES	GV OCT 87
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	GV OCT 87
20	OGS Aggregate Resources Inventory Papers	NO	GV OCT 87
21	OGS Mineral Potential Maps	YES	GV OCT 87
22	Theses on File, Kenora	YES	GV OCT 87
23	Aerial Photos on File, Kenora	YES	GV OCT 87
24	Topographic Maps on File, Kenora OBM Maps (1:20,000) NTS Maps (1:50,000)	YES YES	GV OCT 87 GV OCT 87

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite	△ fu. . . . . .Fuchsite	△ Ni. . . . . Nickel	△ st. . . . . .Stone
△ ank. . . . . .Ankerite	▲ gn. . . . . Galena	△ Nb . . . . . .Niobium	▲ talc. . . . . .Talc
△ anna . . . . . Annabergite	△ gt. . . . . Garnet	△ Pd . . . . . .Palladium	△ Te . . . . . .Tellurium
△ ap. . . . . .Apatite	△ goe . . . . . .Goethite	△ peat . . . . . .Peat	△ td. . . . . Tetrahedrite
△ arg . . . . . Argentite	▲ Au . . . . . Gold	△ pent . . . . . Pentlandite	△ th. . . . . .Thorite
△ As . . . . . .Arsenic	▲ gf. . . . . .Graphite	△ Pt. . . . . .Platinum	△ Th . . . . . .Thorium
△ asp . . . . . .Arsenopyrite	△ gl . . . . . Gravel	▲ py . . . . . .Pyrite	△ thuc . . . . . Thucholite
△ asb . . . . . .Asbestos	△ gyp. . . . . Gypsum	△ pyl . . . . . Pyrochlore	△ ti . . . . . Titanite
△ ba. . . . . .Barite	△ hem . . . . . Hematite	△ pyrl . . . . . .Pyrolusite	△ Ti. . . . . Titanium
△ be. . . . . .Beryl	△ il . . . . . Ilmenite	△ po . . . . . .Pyrrhotite	△ tour . . . . . .Tourmaline
△ Bi. . . . . .Bismuth	△ Fe . . . . . .Iron	△ q . . . . . .Quartz	△ trap . . . . . .Trap rock
△ bn . . . . . .Bornite	△ IF. . . . . Iron Formation	△ qcv . . . . .Quartz carbonate vein	△ W. . . . . Tungsten
△ bran . . . . . .Brannerite	△ jas . . . . . Jasper	△ ra. . . . . .Radioactive minerals	△ uran . . . . . Uraninite
△ bruc . . . . . .Brucite	△ kaol . . . . . .Kaolinite (kaolin)	△ RE . . . . . .Rare Earths	△ U . . . . . .Uranium
△ Cd . . . . . Cadmium	△ ky . . . . . Kyanite	△ sd. . . . . Sand	△ verm . . . . . .Vermiculite
△ calc. . . . . .Calcite	△ Pb . . . . . Lead	△ sgl . . . . . Sand and gravel	△ Y . . . . . Yttrium
△ carb . . . . . .Carbonate	△ lim . . . . . Limonite	△ ss . . . . . .Sandstone	△ Zn . . . . . .Zinc
△ cel . . . . . .Celestite	△ Li. . . . . Lithium	△ scap . . . . . Scapolite	△ zr. . . . . Zircon
△ cc. . . . . .Chalcocite	△ mgst . . . . . .Magnesite	△ shee . . . . . .Scheelite	▲Sb. . . . . .Antimony
▲ cp. . . . . .Chalcopyrite	△ mag . . . . . .Magnetite	△ serp . . . . . Serpentine	▲spst . . . . . .soapstone
△ ch. . . . . .Chert	△ mc . . . . . Malachite	△ sh. . . . . .Shale	
△ clay . . . . . .Clay	△ Mn . . . . . Manganese	△ sid . . . . . Siderite	
△ Co . . . . . Cobalt	△ mb . . . . . .Marble	△ si . . . . . .Silica	
△ cob. . . . . Cobaltite	△ mar. . . . . Marcasite	△ Ag . . . . . .Silver	
△ cb. . . . . .Columbite	△ ma . . . . . .Marl	△ sl . . . . . Slate	
△ Cu . . . . . .Copper	△ mi . . . . . Mica	△ sm . . . . . .Smaltite	
△ cor . . . . . Corundum	△ ml . . . . . .Millerite	△ sod . . . . . Sodalite	
△ dol . . . . . Dolomite	△ mo . . . . . Molybdenite	△ spec . . . . . Specularite	
△ ep. . . . . Epidote	△ Mo . . . . . .Molybdenum	△ sp. . . . . .Sphalerite	
△ ery . . . . . Erythrite	△ mon . . . . . Monazite	△ spd . . . . . .Spodumene	
△ fel . . . . . .Feldspar	△ ne. . . . . Nephelite (nepheline)	△ staur . . . . . .Staurolite	
△ fl . . . . . .Fluorite (flurospar)	△ nc. . . . . .Niccolite	△ stib. . . . . Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps
or mentioned within Mineral Occurrences or Drillhole Summary.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Coste Island Occurrence	Spst,talc	MDIR K0440	IMR 40, p.37 MDC 27, p.92,140,141	OGS OFR 5388, p.104
B	Dead Broke Occurrence (P 64 mining location)	Au,py,cp,gn	MDIR K0468 NMI Au 1	MDC 16, p.14 (Occ.#63) MRC 13, p.241	OGS Open File map 73 OGS MP 137, p.28,29 (fig.004.1),36 OGS AR Vol.2, p.232 OGS AR Vol.45, pt.3, p.29,30 OGS map 45b
C	Mack 26/Mack 27 mining locations	Au?			OGS AR Vol.7, p.117
D	Unnamed	Sb			OGS map P.281 OGS map P.1531 OGS map 2115
E	Cranston, S. Occurrence	gf			Assessment file, Kenora 52E/7 SE; A-1

GDIF FORM NO. 1

4 Astron Bay Area

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Falcon Island Report 52 E/7 NE; C-1	66?																		
2	Cranston, S. 52 E/7 SE; A-1	51																		

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
	No data on file as of October, 1987								

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
	No data on file as of October, 1987				

GDIF FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
	No data on file as of October, 1987			

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

No data on file for this area as of October, 1987.

Age dating is available for adjacent areas. Refer to OGS OFR 5592 accompanied by OGS Map P.2843.

GDIF FORM NO.5

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

Kenora

Algoma Homestake Mining Company

ODM GENERAL INDEX SEARCH

Words searched

Index Volume	Listing	Report Volume	Part	Page
3	Aulneau Peninsula			
	see also "Beaver Inlet"			
	Beaver Inlet			
	Glacial deposits	45	3	21
	Rock	45	3	19
	Granite-greenstone contact, N shore	45	3	8,19
	Cliff Island, Lake of the Woods			
	Quartz veins near	45	3	27
	Rocks	45	3	10
	Dead Broke Gold Mine, Lake of the Woods			
	Mineralization	45	3	29,30
9	Coste Island Occurrence, Lake of the Woods	MP 64		5
	Dead Broke Occurrence			
	Sunset Channel Area, Lake of the Woods	MDC 16		14

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL COMPILATION MAPS		
Ayres, L. D., Lumbers, S. B., Milne, V. G., Robeson, D. W.	1971	Ontario Geological Map, West-Central Sheet	ODM map 2199	1" to 16 miles (1:1,013,760)
Beakhouse, G. P.	1980	Geology, Winnipeg River-English River Area, Manitoba and Ontario, map and notes	GSC Open File 652	1:125,000
Bell, R.	1881	Geological Map of Lake of the Woods and Adjacent Country	GSC map No.161	1" to 4 miles (1:253,440)
Blackburn, C. E.	1981	Kenora-Fort Frances Sheet, Kenora and Rainy River Districts. Geological Compilation Series	OGS map 2443	1" to 4 miles (1:253,440)
Davies, J. C.	1965	Lake of the Woods Sheet, District of Kenora	ODM map P.281	1" to 2 miles (1:126,720)
Davies, J. C., Pryslak, A. P.	1967	Kenora-Fort Frances Sheet, Kenora and Rainy River Districts. Geological Compilation Series	ODM map 2115	1" to 4 miles (1:253,440)
Easton, R. M.	1986	Geochronology Compilation Map for Ontario Sheet 4, West-Central, All Isotopic Systems	OGS map P.2843	1" to 16 miles (1:1,013,760)
Gordon, J. B.	1977	Gold Deposits of Ontario, West-Central Sheet, Districts of Kenora (Patricia Portion), Thunder Bay, Algoma and Cochrane. Mineral Deposits Series	OGS map P.1227	1" to 16 miles (1:1,013,760)

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL COMPILATION MAPS		
Lawson, A. C.	1887	Geologic and Topographical Map of the Northern Part of the Lake of the Woods and Adjacent Country	GSC map No.227	1" to 2 miles (1:126,720)
Morrice, M. G., Wilson, H. D. B.	1980	Volcanic Stratigraphy of the Kenora-Dryden Area, Ontario, maps and notes	GSC Open File 695	1:250,000
OGS	1985	Ontario Mineral Map	OGS map 2472	1:1,584,000
OGS	1986	Geological Highway Map, Northern Ontario	OGS map 2506	1:1,600,000
Tanton, T. L.	1939	Kenora Sheet, Ontario. Canada Department of Mines and Resources	GSC map No.266A	1" to 8 miles (1:506,880)
		GEOPHYSICAL MAPS		
GEO-ANALYSIS LTD.	1981	The Identification of Structural Linears from Landsat Imagery in Northwestern Ontario. Energy, Mines and Resources Canada, Earth Physics Branch, Seismological Service of Canada	OF 82-12 (Image 3125, Map 1)	1:250,000
ODM-GSC	1962	Falcon Island, Ontario, NTS Sheet 52E/7, Geophysics Paper 1185, Aeromagnetic Series	ODM-GSC map 1185G	1" to 1 mile (1:63,360)
OGS-GSC	1977	Airborne Gama-Ray Spectrometry Survey, Kenora Sheet, Districts of Kenora and Rainy River, Geophysical Series	Preliminary Maps P.1355 - P.1389	1" to 4 miles (1:253,440)
GSC	1984	Airborne Gama-Ray Spectrometric Maps, Lake of the Woods, Manitoba-Ontario (Sheet 35552G)	GSC Open File 1067	1:1,000,000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Hallett, D. R., Roed, M. A.	1980	Northwest Angle Area, Districts of Kenora and Rainy River. Northern Ontario Engineering Geology Terrain Study. Accompanied by Map 5056	OGS NOEGTS 36	1:100,000
Sado, E. V., Carswell, B. F.,	1987	Surficial Geology of Northern Ontario	OGS map 2518	1:1,200,00
Zoltai, S. C.	1965	Surficial Geology, Kenora-Rainy River. Ontario Department of Lands and Forests	map S 165	1" to 8 miles (1:506,880)
		MINERAL POTENTIAL MAPS		
Robertson, J. A., Vos, M. A., Springer, J. S.	1976	Mineral Potential Map of Ontario, West-Central Sheet, Mineral Deposits Series	ODM map P.1098	1" to 16 miles (1:1,013,760)
Springer, J. S.	1978	Ontario Mineral Potential, Kenora Sheet. Mineral Deposits Series	OGS map P.1531	1:250,000
Springer, J. S., Robertson, J. A., Vos, M. A.	1982	Mineral Potential Map of Ontario, West-Central Sheet (Accompanied by one overlay)	OGS OFR 5326	1" to 16 miles (1:1,013,760)

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Ayer, J. A., Buck, S., Macfie, R. I.	1987	Precambrian Geology of the Chisholm Island Area, Lake of the Woods, District of Kenora	OGS OFM 73	1" to 1/4 mile (1:16,840)
Ayer, J. A., Buck, S., Macfie, R. I.	1987	Geology of the Chisholm Island Area, Lake of the Woods, District of Kenora; in Summary of Field Work and Other Activities, 1987	OGS MP 137	p.28-32
Ayer, J. A., Buck, S.	1987	Structural and Metallogenic Studies, Lake of the Woods Area, District of Kenora; in Summary of Field Work and Other Activities, 1987	OGS MP 137	p.33-38
Beard, R. C., Garrett, G. L.	1976	Gold Deposits of Kenora-Fort Frances Area, Districts of Kenora and Rainy River. Accompanied by Chart A	ODM MDC 16	1" to 4 miles (1:253,440) p.14
Bell, R.	1883	Appendix II on the Geology of the Lake of the Woods and Adjacent Country. Accompanied by GSC map No.161	GSC, Report of Progress 1880-82, Vol.7	1" to 4 miles (1:253,440)
Blackburn, C. E., Bond, W. D., Breaks, F. W., Davis, D. W., Edwards, G. R, Poulsen, K. H., Trowell, N. E., Wood, J.	1985	Evolution of Archean Volcanic-Sedimentary Sequences of the Western Wabigoon Subprovince and its Margins: A Review; in Evolution of Archean Supracrustal Sequences, GAC Special Paper 28, edited by Ayres, L. D., Thurston, P. C., Card, K. D., Weber, W.	GAC Special Paper 28	p.89-116
Brisbin, W. C.	1973	Aulneau Batholith Project, Gravity Studies-Progress Report; in Centre for Precambrian Studies, University of Manitoba, Annual Report	Centre for Precambrian Studies, 1973 Annual Report	p.54-59

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Brisbin, W. C.	1974	Aulneau Batholith Project, Gravity Studies-Progress Report; in Centre for Precambrian Studies, University of Manitoba, Annual Report, Part 2-Research	Centre for Precambrian Studies, 1974 Annual Report	p.185-190
Coleman, A. P.	1898	Fourth Report on the West Ontario Gold Region; in Ontario Bureau of Mines Annual Report for 1898	OBM AR Vol.7, Part 2	p.115-120,145, 146,155
Ferguson, S. A., Groen, H. A., Haynes, R.	1971	Gold Deposits of Ontario, Part 1, Districts of Algoma, Cochrane, Kenora, Rainy River, and Thunder Bay	ODMNA MRC 13	p.241
Goodwin, A. M.	1965	Preliminary Report of Volcanism and Mineralization in the Lake of the Woods-Manitou Lake-Wabigoon Region of Northwestern Ontario. Accompanied by map "Structural Geology of the Lake of the Woods-Manitou Lake-Wabigoon Region, Districts of Kenora and Rainy River"	ODM PR 1965-7	1" to 4 miles (1:253,440) 63 pages
Goodwin, A. M.	1970	Archean Volcanic Studies in the Lake of the Woods-Manitou Lake-Wabigoon Region of Northwestern Ontario	ODM OFR 5042	47 pages
Hewitt, D. F.	1972	Talc in Ontario	ODMNA IMR 40	p.37
Lawson, A. C.	1885	Report on the Geology of the Lake of the Woods Region with Special Reference to the Keewatin (Huronian?) Belt of Archean Rocks; in Geological Survey of Canada Annual Report for 1884 and 1885.	GSC AR Vol.1, Part CC	151 pages

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Mackasey, W. O. Blackburn, C. E., Trowell, N. F.	1974	A Regional Approach to the Wabigoon-Quetico Belts and its Bearing on Exploration in Northwestern Ontario	ODM MP 58	29 pages
Neilson, J. N., Bray, R. C. E.	1981	Feasibility of Small Scale Gold Mining in Northwestern Ontario (parts of the Districts of Kenora, Rainy River and Thunder Bay)	OGS OFR 5332, Vol.1	p.25
Parsons, A. L.	1912	Goldfields of Lake of the Woods, Manitou and Dryden, Kenora District; in Ontario Bureau of Mines Annual Report for 1912	OBM AR Vol.21, Part 1	p.180,181-183
Parsons, A. L.	1913	The Lake of the Woods and Other Areas, Kenora District; in Ontario Bureau of Mines Annual Report for 1913	OBM AR Vol.22, Part 1	p.214-216
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Thomson, J. E.	1937	Geology of the North Central Part of the Lake of the Woods; in Ontario Dept. of Mines Annual Report for 1936. Accompanied by mao 45b "North Central Part of the Lake of the Woods, District of Kenora, Ontario"	ODM AR Vol.45, Part 3	p.1-43

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Vos, M. A.	1982	Industrial Minerals of Northern Ontario-Supplement 1	OGS OFR 5388	p.104
Ziehlke, D. V.	1973	Aulneau Batholith Project, Geological Investigations -Progress Report; in Centre for Precambrian Studies, University of Manitoba, Annual Report	Centre for Precambrian Studies, 1973 Annual Report	p.60-73
Ziehlke, D. V.	1974	Aulneau Batholith Project, Geology and Petrology; in Centre for Precambrian Studies, University of Manitoba, Annual Report, Part 2 - Research	Centre for Precambrian Studies, 1974 Annual Report	p.150-184
Ziehlke, D. V.	1975	Aulneau Batholith Project-Progress Report; in Centre for Precambrain Studies, University of Manitoba, Annual Report, Part 2 - Research	Centre for Precambrian Studies, 1975 Annual Report	p.6-9
Ziehlke, D. V.	1980	Geology of the Aulneau Peninsula, Lake of the Woods, Ontario, map and notes	GSC Open File 655	1:50,000
Ziehlke, D. V.	1980	Structural Geology of the Aulneau Peninsula, Lake of the Woods, Ontario, map	GSC Open File 656	1:50,000
Ziehlke, D. V.	1980	Sample Location Map for the Aulneau Peninsula,	GSC Open File 657	1:50,000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		THESES		
Chute, M. E.	1977	Geochemistry of the Aulneau Granite Batholith, District of Kenora, Ontario, Canada. M.Sc. Thesis, University of Manitoba		95 pages
Brown, B. A.	1984	The Role of Granite Diapirism in the Deformational History of Archean Greenstones of the Central Lake of the Woods Area, Northwestern Ontario		176 pages

NOTES AND ADDENDA

AERIAL PHOTOGRAPH INDEX

(compiled from index maps only)

	Roll	Line	Photo Number
1982, scale 1" to $\frac{1}{4}$ mile (OGS)			
	47	4916	179 - 182
	19	4916	2 - 11
	19	4917	80 - 92
	19	4918	158 - 172
	21	4919	22 - 34
	24	4920	49 - 62
	24	4921	122 - 134
1974, scale 1" to 1 mile (EMR)			
		A23704	169 - 173*
			109 - 114*

* Photographs on file in Resident Geologist's Office, Kenora

TOPOGRAPHIC MAPS

Ontario Base Map Series (scale 1:20,000)

20	15	3700	54700
20	15	3700	54800
20	15	3800	54700
20	15	3800	54800
20	15	3900	54700
20	15	3900	54800

National Topographic System (scale 1:50,000)

52 E/07 Falcon Island Sheet

NOTES AND ADDENDA

MINERAL DEPOSITS FILE

Note: A deposits file is maintained at the Kenora Resident Geologist's Office, which contains the published data on the following mineral deposits:

1. Coste Island Occurrence
2. Dead Broke Occurrence
3. Mack 26/27 Occurrence

49°30'00"

94°45'00"

Turtle Bay

Bishop Point I.

Tranquil Channel of Lake of the Woods

Toadstool I.

Toadstool Pt

Spruce Portage Bay

Redwater Bay

Red Bay

Kennedy I.

Lake of the Woods

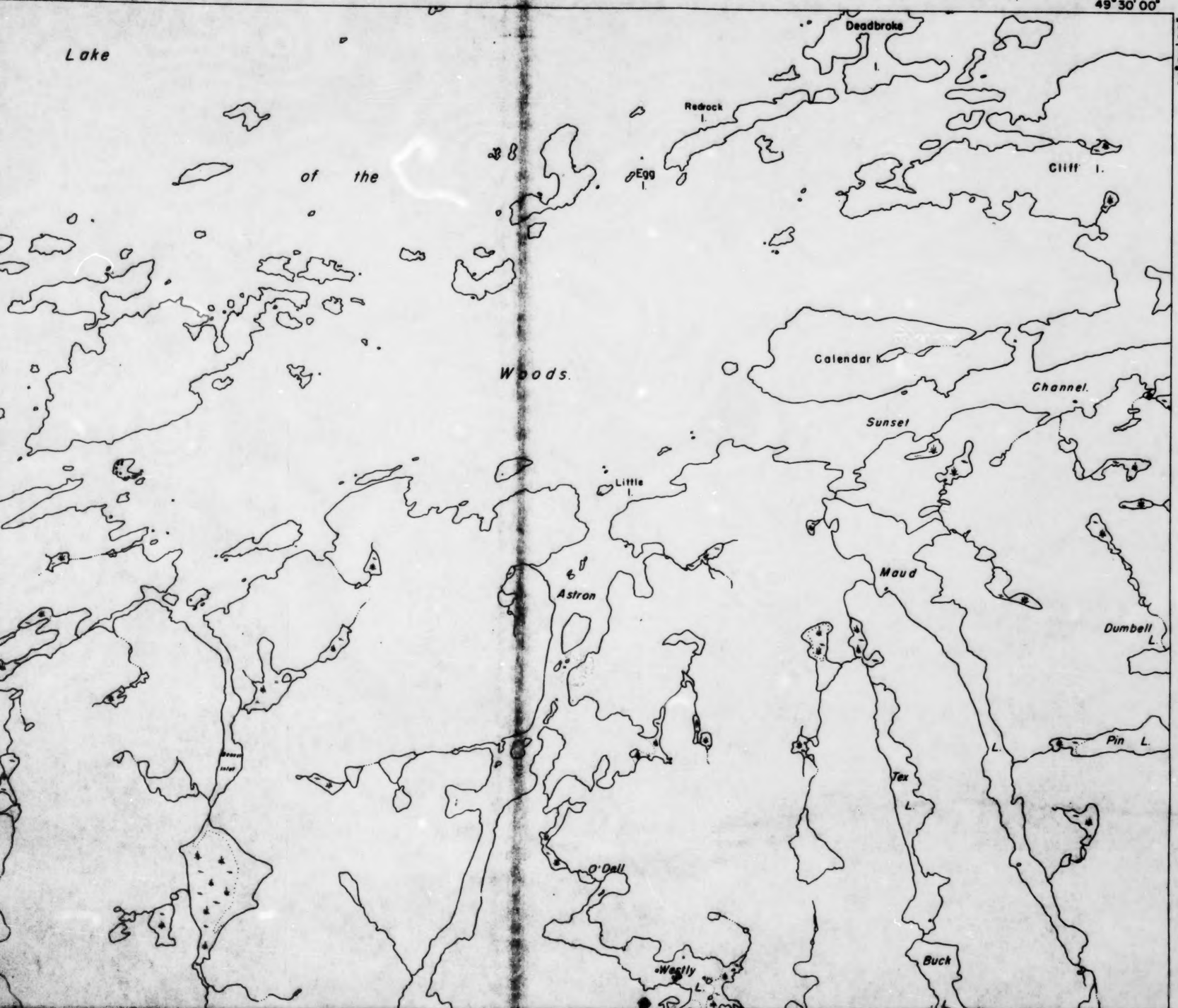
Portage de Bois

Coste I.

Egg I.

Passage

Astron



Ontario Ministry of Northern Development and Mines

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 449

(Map 1 of 2)

ASTRON BAY AREA

DISTRICT OF KENORA

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

Coste I.

Egg I.

Portage de Baie

Passage

Johnston

Falcon Island

The

Tug

Channel

Boucha L.

Don L.

Aulneau Peninsula

Bay

Rice Boy of Lake of the Woods

2

2

2

94°45'00"

49°22'30"

Mile 0.5 0 0.5 1 Mile

Pin L.

Tex L.

O'Dell

Westly

L.

Buck L.

Bay

Cr.

L.

L.

O'Dell

Peninsula

Lake of the Boys

94°30'00"

49°22'30"

EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

Small area of exploration

File covers whole township or area

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ ◆³ Geochemical sample site, with reference number
- ☐ ◆³ Area of geochemical sampling, with reference number
- ☐ ✳² Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ☐ –AM– Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ –ARA– Airborne radiometric anomaly
- ☐ –M– Ground magnetic anomaly
- ☐ –VL– Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- ☐ –RA– Ground radiometric anomaly
- ☐ –IP– Induced polarization anomaly

49°30'00"

94°30'00"

Kennedy I.

Lake

of the

Woods

Boy

Deadbroke

Redrock

Egg

Cliff I.

Calendar

Channel.

Sunset

Little

Astron

Moud

Dumbell L.

Pin L.

Tex L.

O'Dell

Westly L.

Buck L.

Ministry of
Northern D
and Mines

Ontario

Sean Conway, Mini

ONTARIO GEOLOGI

EXPLORATION

GEOLOGICAL DATA INVE

(Map 2 o

ASTRON BA

DISTRICT OF K

Scale 1:31 6

Kilometre 0.5 0 0.

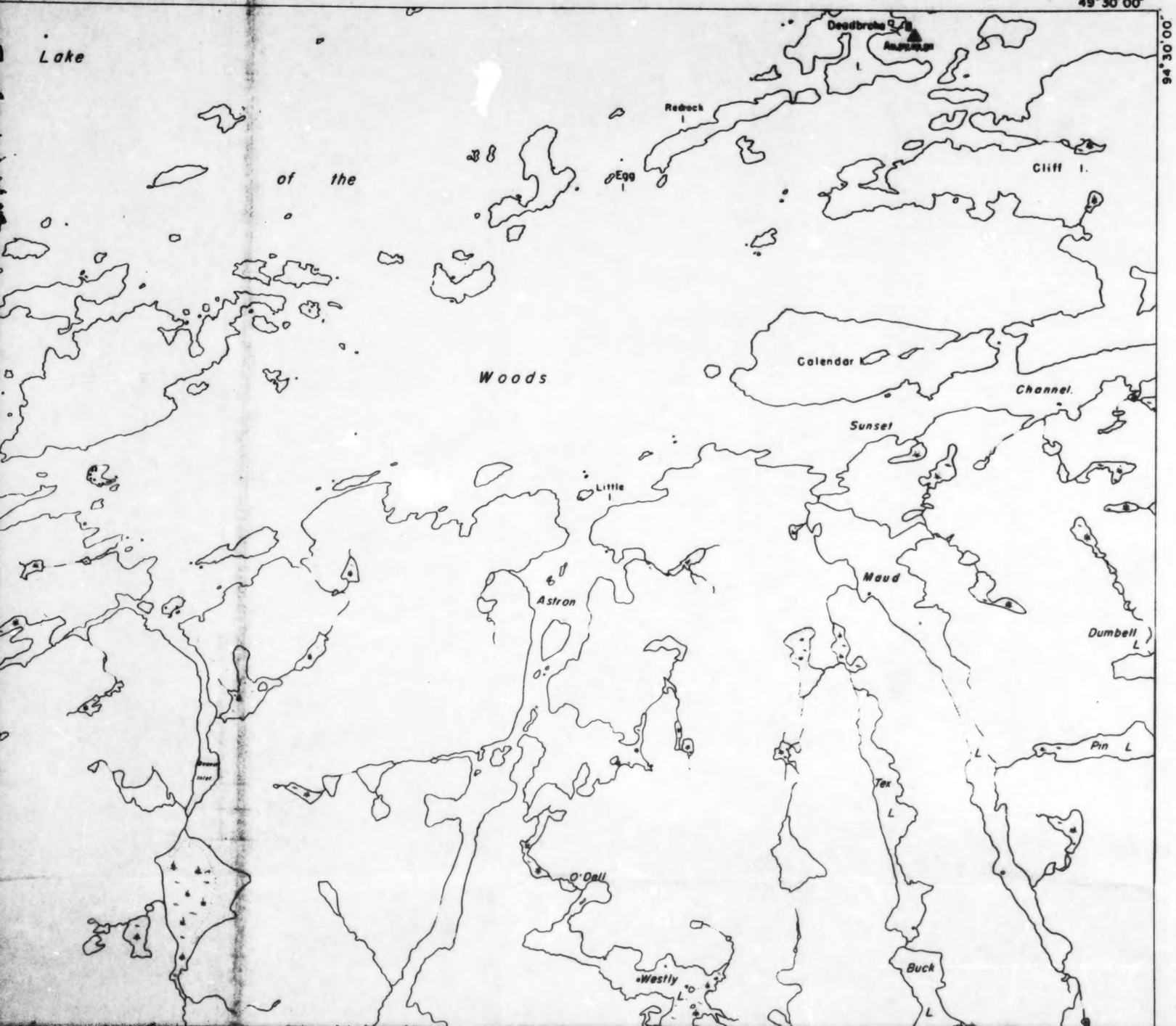
Mile 0.5 0

GEOLOGICAL A

TYPES OF DATA SHOWN ON THIS M

MINERAL

cp A. Mineral occurrence



Ministry of Northern Development and Mines

Ontario

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 449

(Map 2 of 2)

ASTRON BAY AREA

DISTRICT OF KENORA

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

cp A. Mineral occurrence at surface, with reference letter

Location of anomaly along flight line

Airborne electromagnetic anomaly
Conductor axis: definite, probable, possible

Airborne radiometric anomaly

Ground magnetic anomaly

Ground electromagnetic anomaly
(VL - Vertical loop; HL - Horizontal loop
VLF - Very low freq.; Turam; JEM -
Crone Em - 16)

Ground radiometric anomaly

Induced polarization anomaly

Self potential anomaly

Audio-frequency magnetic anomaly
(total intensity)

Resistivity anomaly

Gravity anomaly

MISCELLANEOUS DATA

Trenching, pit

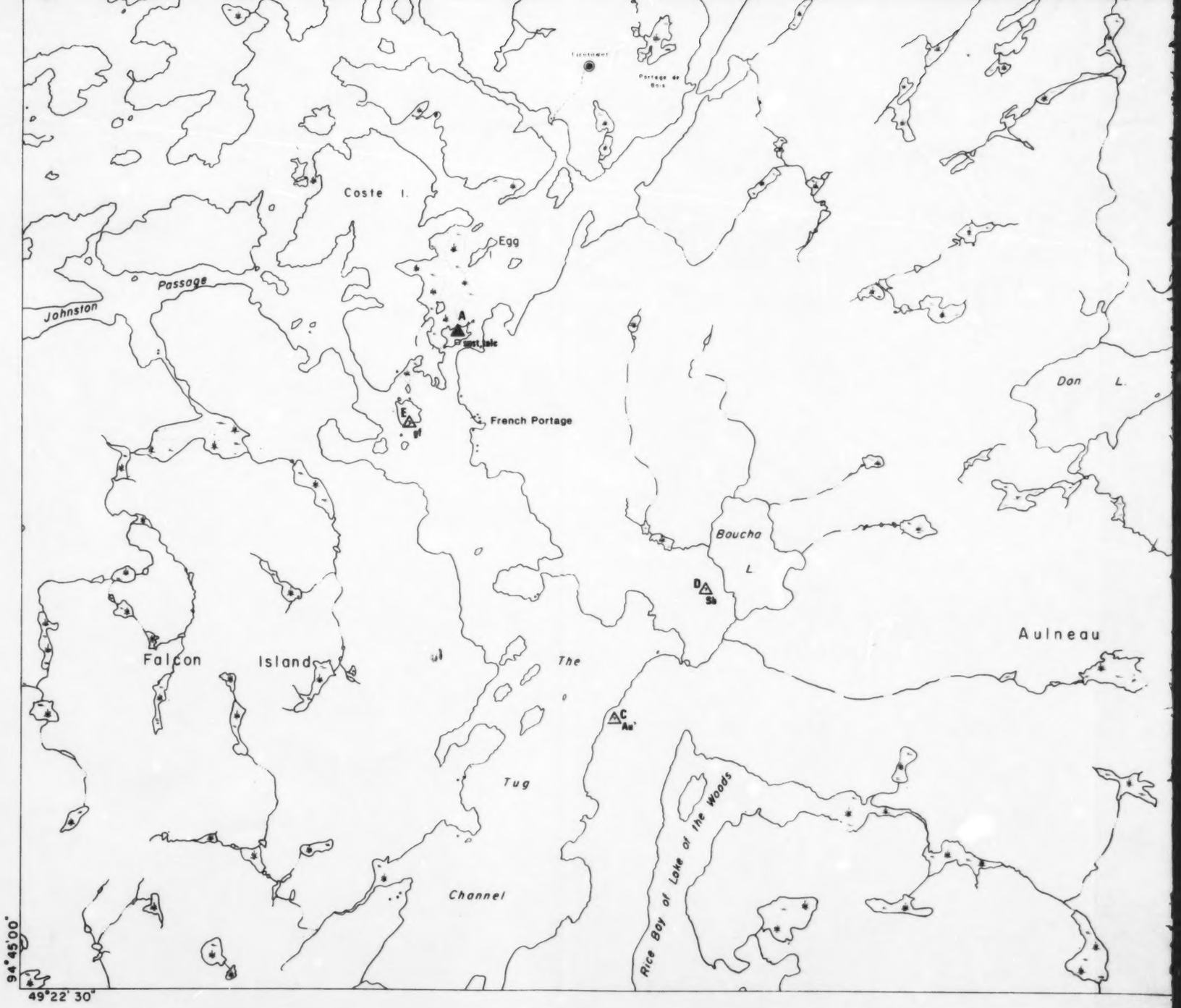
Adit

Open pit

Rock quarry

Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



Don L.

Boucha L.

Aulneau Peninsula

Bay

O'Dell

Westly L.

Cr

O'Dell

Tex L.

Buck L.

Lake of the Woods

Lake of the Bays

94°30'00"

49°22'30"

Mile 0.5 0

GEOLOGI

TYPES OF DATA SHOWN ON

MIN

- cp A. — Mineral occ
- Au A. 84' — Mineral occ reference
- Ag A. — Mineral occ with refere
- cp A. — Mineralized
- A. — Mineral occ and drillho
- Location o
- Location o reference n
- Drillhole, e
- Property w with refere
- Property w with refere
- Reverse cir number

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ■ cp ▲ A. — Mineral occurrence at surface, with reference letter
- □ Au ◪ A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ■ Ag △ A. — Mineral occurrence reported but exact location uncertain, with reference letter
- □ cp ▬ A. — Mineralized float with reference letter
- □ △ A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- □ ●² — Location of single drillhole, with reference number
- □ ◉² — Location of closely spaced group of drillholes, with reference number
- □ ⊙² — Drillhole, exact location uncertain, with reference number
- □ ◡ — Property with underground drillholes in this general area, with reference number
- □ ○² — Property with drillholes which have not been plotted on map, with reference number
- □ ⊕² — Reverse circulation drillhole; churn drilling, with reference number

O'Dell

Westly

Bay

Cr

Tex L

Buck L

O'Dell

Peninsula

Lake of the Bays

94°30'00"

49°22'30"

PAP 474